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imagery analysis report

Microwave Radio Relay Networks in Iran

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MICROWAVE RADIO RELAY NETWORKS IN IRAN

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1. This is a preliminary report on the Iranian microwave radio relay network, identifying the Central Treaty Organization (CENTO) relay network and portions of at least four domestic networks. A total of 193 Iranian microwave radio relay stations (Tables 1 through 4) are included in this report. Twenty-six are CENTO stations, and the remaining 167 are domestic stations. In addition to the microwave radio relay stations, seven troposcatter facilities and nine other communications facilities have been identified.

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2. For convenience in reporting, Iran has been divided into quadrants (Figure 1 and Figures 2 through 5); a larger scale inset map of Tehran is included with Figure 2.

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CENTO Military Network

3. The CENTO international military radio relay communications network was built to link Karachi, Pakistan; Tehran, Iran; and Ankara, Turkey. A total of 43 CENTO radio relay stations for Iran were listed in the TDI;[1] of these, 26 have been identified on photography. The typical CENTO station consists of a lattice tower with two parabolic dish microwave antennas, a control building, onsite power generation facilities, and various support buildings.

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4. The most important intercity trunklines are furnished by channels in the CENTO network. The equipment operates at about 2 gigahertz with a capacity of 960 telephone channels between Tabriz and Kerman.[2]

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Domestic Network

5. The 167 facilities identified as domestic radio relay facilities include portions of at least four different networks. The networks include the Ministry of Posts, Telephone, and Telegraphs (PTT); the National Iranian Oil Company (NIOC); the Integrated National Telecommunications System (INTS); and the military.[3] Because these facilities have been built by companies from around the world, there is no typical pattern for the stations. However, parabolic dish antennas have been observed at all the stations.

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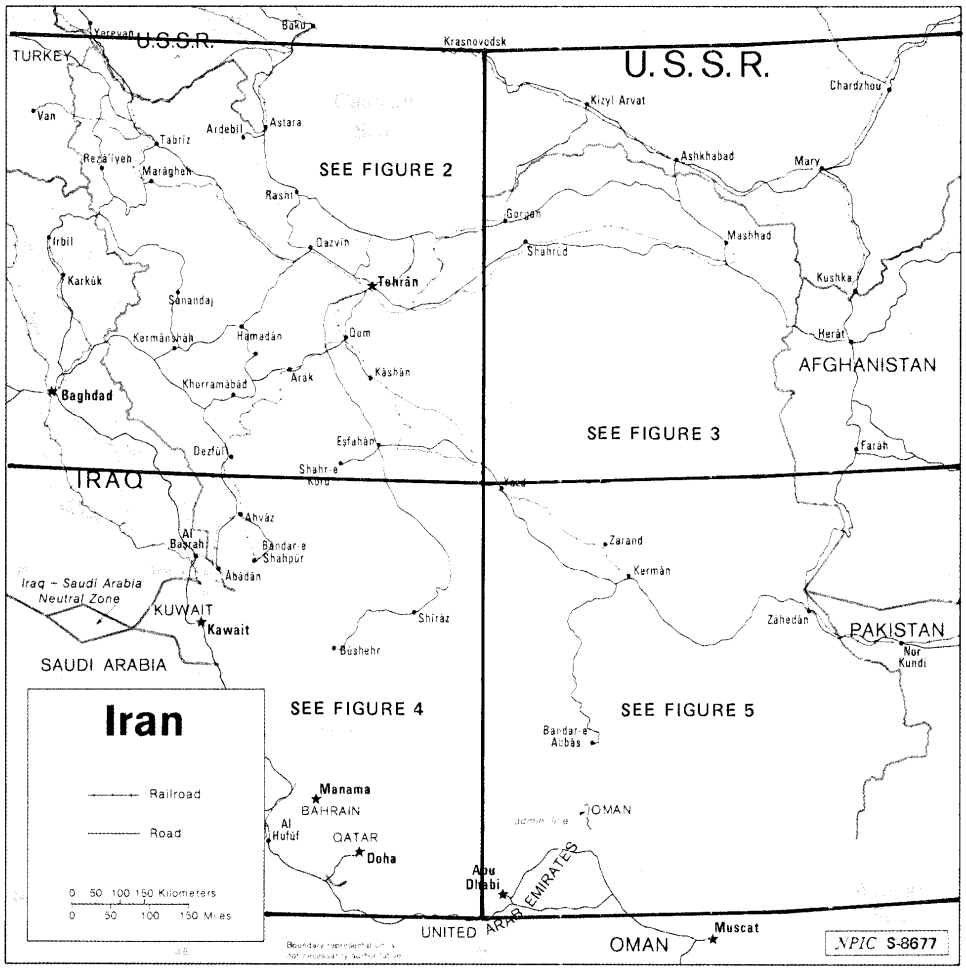

FIGURE 1. MAP OF IRAN

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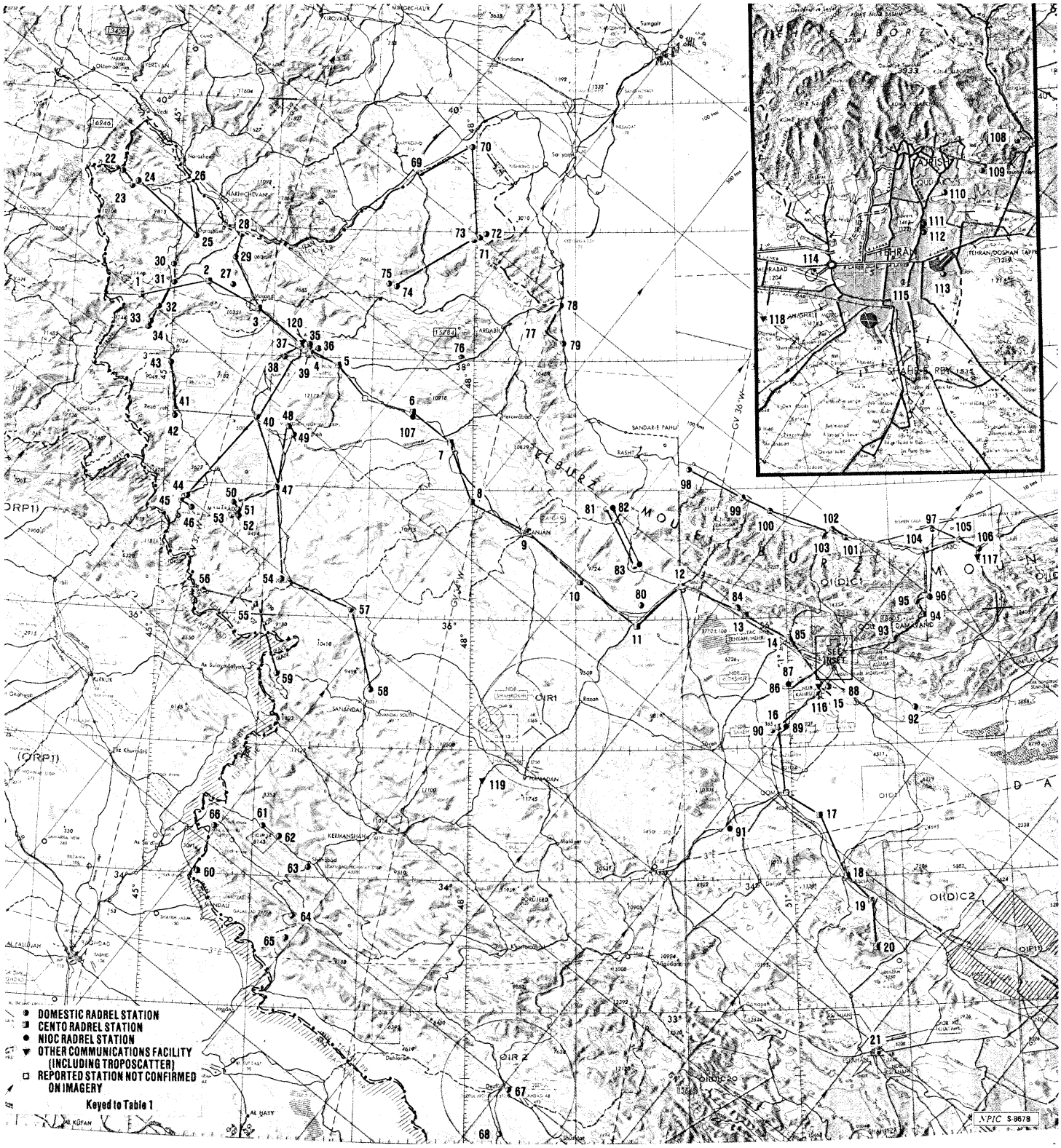

FIGURE 2. MICROWAVE RADIO RELAY STATIONS IN NORTHWEST QUADRANT OF IRAN

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Table 1.
Microwave Radio Relay Stations, Troposcatter Stations, and Other Communications Facilities Identified in Iran
(Keyed to Figure 2)

Site No	Facility	Geographic Coordinates	Site Elev (ft)	No of Parabolic Antennas
CENTO Stations				
1	Qotur Intl Radrel Sta CENTO	38-24-32N 044-38-00E	7,000	2
2	Zanjireh Intl Radrel CCT Drop CENTO	38-32-40N 045-18-20E	3,609	2
3	Marand Intl Radrel CENTO	38-21-42N 045-50-40E	5,906	2
4	Tabriz Intl Radrel Tmnl CENTO	38-02-15N 046-20-15E	4,921	2
5	Sheibi Intl Radrel CENTO	37-56-40N 046-38-35E	7,200	2
6	Torkaman Intl Radrel CENTO	37-36-10N 047-23-50E	5,577	2
7	Mianeh Intl Radrel CENTO	37-21-00N 047-47-30E	4,921	2
8	Qahab Intl Radrel CENTO	36-54-16N 047-59-37E	5,167	2
9	Zanjan Intl Radrel CENTO	36-41-30N 048-31-30E	5,988	2
10	Sain Qaleh Intl Radrel CENTO	36-17-20N 049-02-10E	6,070	2
11	Seyfabad Intl Radrel CENTO	35-55-00N 049-34-20E	4,994	2
12	Qazvin Intl Radrel CCT Drop CENTO	36-15-05N 050-00-00E	4,199	2
13	Khur Intl Radrel CENTO	36-01-10N 050-35-30E	5,925	2
14	Karaj Intl Radrel Sta CENTO	35-48-16N 051-01-10E	4,937	2
15	Dutuyeh Ye Sofla Intl Radrel CENTO	35-26-05N 051-17-47E	3,444	3
16	Kushk E Nosrat Intl Radrel CENTO	35-09-30N 050-52-00E	6,364	2
17	Golulu Intl Radrel CENTO	34-28-20N 051-17-00E	2,673	2
18	Kashan Intl Radrel CCT Drop CENTO	33-59-50N 051-28-08E	3,038	2
19	Mazraeh Ye Mirza Khani Radrel CENTO	33-49-30N 051-46-57E	3,316	2
20	Tarq Intl Radrel Sta CENTO	33-26-40N 051-43-20E	9,842	2
21	Esfahan Intl Radrel Terminal CENTO	32-39-10N 051-42-45E	5,200	2
Domestic Microwave Stations				
22	Bazargan Radrel Sta	39-23-29N 044-23-09E	5,000	1
23	Maku Radrel Sta	39-17-40N 044-30-25E	4,035	2
24	Maku Passive Radrel Sta	39-18-18N 044-34-12E	5,643	2 reflectors
25	Marakand Radrel Sta	38-53-45N 045-12-00E	5,700	3
26	Poldasht Radrel Sta	39-20-20N 045-04-11E	2,625	1
27	Zanjira Passive Radrel Sta	38-31-00N 045-34-30E	5,020	1 reflector
28	Jolfa Radrel Sta	38-56-30N 045-38-00E	2,401	1
29	Dareh Diz Passive Radrel Sta	38-45-24N 045-34-30E	5,118	1 reflector
30	Kuh-e-dastjero Radrel Sta	37-40-35N 045-58-40E	7,218	1
31	Khvoy Radrel Sta	38-32-34N 044-59-17E	3,600	3
32	Shahpur Radrel Sta NE	38-19-08N 044-52-54E	5,000	2
33	Shahpur Passive Radrel Sta	38-12-35N 044-46-20E	4,527	1 reflector
34	Shahpur Radrel Sta	38-11-34N 044-47-24E	4,595	1
35	Tabriz Passive Radrel Sta N	38-06-00N 046-19-50E	5,249	1 reflector
36	Tabriz Radrel Sta	38-04-20N 046-27-25E	8,513	3
37	Tabriz Radrel Sta Central	38-03-25N 046-17-51E	4,265	1
38	Sard Rud Radrel Sta	38-00-25N 046-07-50E	4,921	1
39	Tabriz Radrel Sta Ammo Depot	38-01-50N 046-18-00E	4,590	1
40	Ajab Slir Radrel Sta	37-30-10N 045-53-30E	4,288	1
41	Rezaiyeh Radrel Sta	37-32-30N 045-04-10E	4,370	3
42	Rezaiyeh Radrel Sta South	37-32-15N 045-03-45E	4,370	2
43	Kushi Radrel Sta	37-54-50N 044-59-40E	4,724	1
44	Jandeyan Radrel Sta NE	36-52-56N 045-12-30E	6,233	2
45	Jaldeyan Radrel Sta	36-51-30N 045-10-30E	4,839	1
46	Qalehye Pasveh Radrel Sta	36-48-40N 045-16-30E	4,921	1
47	Mindoab Radrel Sta	36-58-00N 046-06-10E	4,199	4
48	Maragheh Passive Radrel Sta	37-27-30N 046-11-40E	6,496	1 reflector
49	Maragheh Radrel Sta	37-23-30N 046-14-30E	4,757	2
50	Mahabad Passive Radrel	36-49-29N 045-41-00E	5,721	1 reflector
51	Mahabad Radrel Sta	36-45-30N 045-43-20E	4,593	2
52	Mahabad Radrel Sta South	36-45-15N 045-43-00E	4,330	1
53	Clumelan Radrel Sta	36-45-20N 045-40-25E	5,249	Undet
54	Saqqez Mcrwv Fac	36-16-00N 046-10-50E	7,000	4
55	Baneh Mcrwv Fac	36-04-10N 045-56-40E	8,510	3
56	Sar Dasht Mcrwv Fac	36-09-10N 045-27-55E	5,750	1
57	Fattahabad Mcrwv Fac	36-03-50N 046-51-25E	8,500	2
58	Sanandaj Mcrwv Fac	35-26-10N 047-03-25E	6,900	2
59	Dezh Shahpur Mcrwv Fac	35-32-05N 046-09-00E	5,250	1
60	Naft E Shah Radrel Fac	34-00-40N 045-30-00E	600	Undet
61	Shireh Cheqa Mcrwv Fac	34-22-45N 046-04-40E	4,430	4
62	Karand Mcrwv Fac	34-17-10N 046-15-30E	6,575	3
63	Shahabad Mcrwv Fac	34-04-20N 046-31-20E	5,200	3
64	Ilam Mcrwv Fac	33-41-00N 046-23-20E	6,580	2
65	Hasabak Mcrwv Fac	33-31-05N 046-20-40E	6,050	2
66	Kuh-e Kamakow Mcrwv Fac	34-21-25N 045-38-30E	1,850	4
67	Dezful Radrel CCT Drop PTT	32-22-15N 048-23-10E	350	1
68	Gobeybeh Mcrwv Fac	32-05-30N 048-18-15E	220	4
69	Quareh Gauan Radrel Sta	39-26-07N 047-23-25E	508	1
70	Boyuk Khanlo Radrel Sta	39-39-25N 047-56-05E	164	2
71	Mocham Radrel Sta	38-59-06N 048-02-18E	5,059	4
72	Germi Radrel Sta	39-00-50N 048-04-42E	2,773	1
73	Germi Radrel Sta SW	38-58-59N 048-09-40E	4,450	Undet
74	Ghezel Gaya Radrel Sta	38-35-40N 047-10-45E	7,218	4
75	Ahar Prob Radrel Sta	38-35-15N 047-08-55E	7,400	Undet
76	Glase-Dagh Radrel Sta	38-01-36N 047-51-06E	8,333	2
77	Kuh-E-Sanger Radrel Sta	38-13-36N 048-41-02E	7,027	3
78	Astara Radrel Sta	38-25-55N 048-52-50E	78	1
79	Haviq Mcrwv Fac	38-10-00N 048-53-55E	60	2
80	Takestan Radrel Sta	36-04-20N 049-38-15E	4,921	2
81	Salaneh Sar Radrel Sta West	36-55-40N 049-24-05E	4,830	2
82	Salaneh Radrel Sta East	36-55-40N 049-24-10E	4,830	2
83	Murad Tappeh Radrel Sta	36-25-46N 049-35-13E	6,486	4
84	Abvek Sofla Radrel Sta	36-04-30N 050-31-00E	5,925	2
85	Karaj Radrel Sta	35-47-55N 051-02-03E	4,937	2
86	Robat Karim Radrel Igat NIOC	35-28-55N 050-59-50E	4,002	2
87	Robat Karim Radrel PTT	35-30-30N 051-06-46E	3,461	2
88	Dutuyeh Ye Sofla Radrel Sta	35-26-15N 051-17-45E	3,444	3
89	Allabad Radrel Sta NIOC	35-09-20N 050-56-20E	5,137	2
90	Kushk E Nosrat Radrel Sta	35-09-29N 050-51-59E	6,364	2
91	Rahjerd Radrel Sta NIOC	34-22-15N 050-23-00E	6,233	4
92	Eyvanekey Radrel Sta	35-17-20N 052-09-35E	3,221	3
93	Mobarakabad Radrel Sta	35-47-40N 051-59-35E	10,170	2
94	Half Tan Radrel Sta	35-59-00N 052-19-30E	7,381	2
95	Mohammadabad Radrel Sta	36-01-40N 052-16-15E	4,921	2
96	Zardeband Radrel Sta	36-07-45N 052-21-40E	4,921	2
97	Chaksar Radrel Sta	36-39-05N 052-23-25E	0	2
98	Abshar Radrel Sta	37-09-30N 050-06-00E	2,296	4
99	Kuh-e-silmilly Radrel Sta	36-56-56N 050-36-25E	0	4
100	Shahsavar Radrel Sta	36-49-03N 050-52-58E	0	4
101	Now Shahr Radrel Sta SE	36-35-50N 051-36-00E	500	5
102	Now Shahr Radrel Sta	36-39-10N 051-30-05E	24	2
103	Chalus Radrel Sta	36-39-00N 051-25-20E	0	1
104	Amol Radrel Sta	36-28-20N 052-21-08E	255	4
105	Babol Radrel Sta	36-32-15N 052-40-50E	0	5
106	Shahi Radrel Sta	36-27-55N 052-51-02E	0	4
107	Torkaman Radrel Sta NIOC	37-35-10N 047-23-00E	5,413	2
108	Gardaneh-ye Quchak Radrel Sta	35-48-50N 051-33-44E		2
109	Lavizan SCS Radrel Sta	35-47-20N 051-31-10E	5,498	2
110	Tehran Radrel A Rad Sta Saltanabad	35-46-09N 051-28-20E	3,999	2
111	Tehran Radrel Sta NIR	35-44-15N 051-26-45E	4,000	2 pairs helical UHF
112	Tehran Radrel Sta Mil SCS	35-43-59N 051-26-49E	4,000	3
113	Tehran Radrel Sta Doshan Tappeh	35-41-31N 051-28-08E	4,000	2
114	Tehran Mcrwv Tmnl Mehrabad Afld	35-40-52N 051-19-40E	4,000	1
115	Tehran Radrel Sta PTT	35-41-00N 051-25-10E	4,000	8
Troposcatter Stations				
116	Hasanabad E Khaleseh Tropo Sta South	35-26-06N 051-17-35E	3,450	4
117	Shahi Tropo Sta	36-23-15N 052-50-20E	285	4
Other Communications Facilities				
118	Tehran Commo Fac West	35-41-20N 051-15-00E	3,950	5 rhombic and 2 vee antennas, 1 horizontal dipole antenna, 1 vertical radiator, & 8 masts
119	Ashdabad Sync Comsat Sta PTT	34-47-00N 048-07-00E	1,555	2 INTELSAT antennas
120	Tabriz FM BC Sta	38-03-33N 046-17-49E	4,265	1 self-supporting lattice tower

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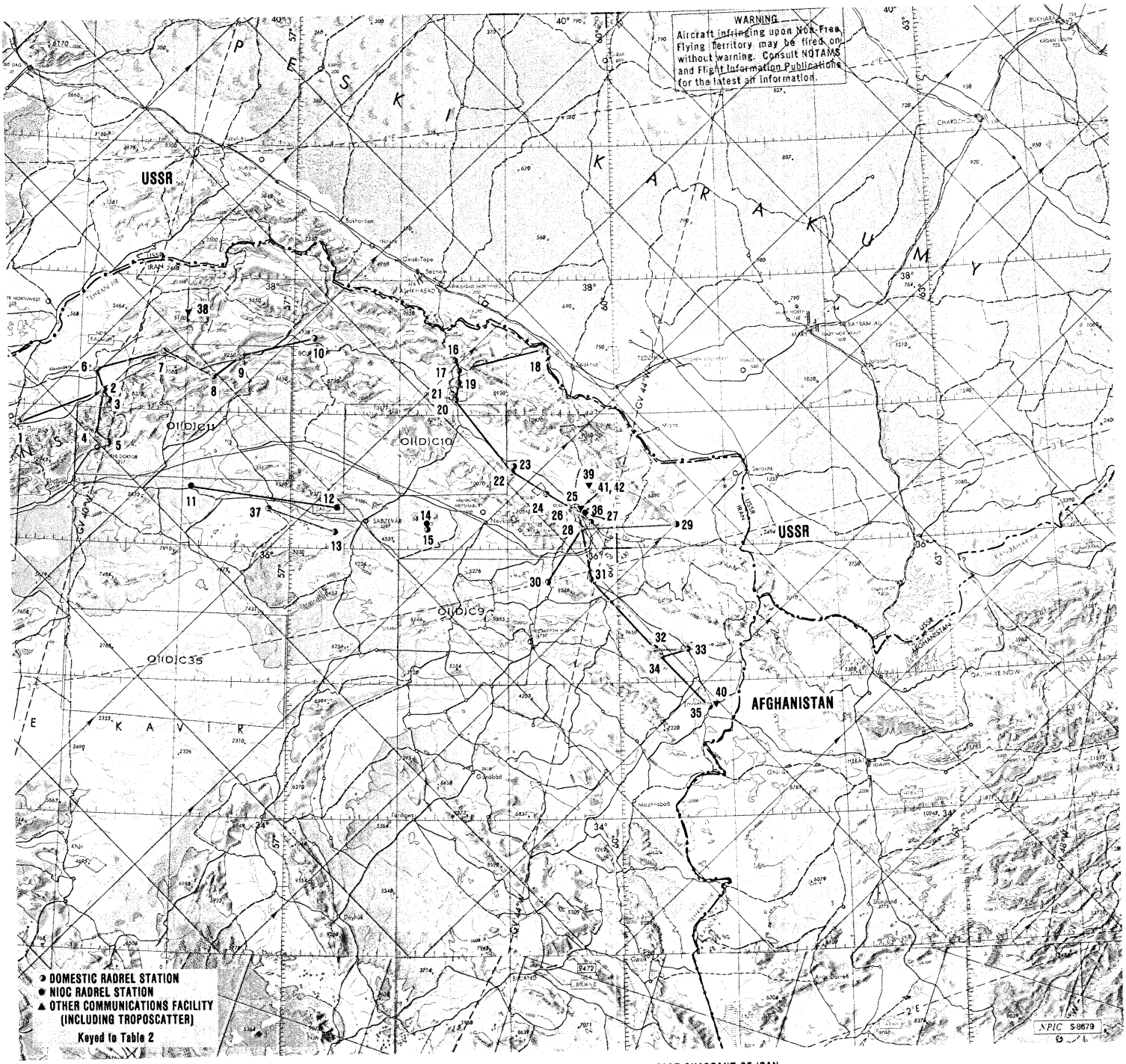
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IRAN
AFGHANISTAN
P E S K I
K A R A K U M Y
K A V I R
DOMESTIC RADREL STATION
NIOC RADREL STATION
OTHER COMMUNICATIONS FACILITY (INCLUDING TROPOSCATTER)
Keyed to Table 2
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FIGURE 3. MICROWAVE RADIO RELAY STATIONS IN NORTHEAST QUADRANT OF IRAN

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Table 2.
Microwave Radio Relay Stations, Troposcatter Stations, and Other Communications Facilities Identified in Iran
(Keyed to Figure 3)

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25X1

Site No	Facility	Geographic Coordinates	Site Elev (ft)	No of Parabolic Antennas
1	Gorgan Radrel Sta	36-40-40N 054-24-25E	492	2
2	Qezeljeh Radrel Sta	37-06-47N 055-12-43E	2,796	4
3	Now Deh Radrel Sta	37-03-28N 055-16-09E	1,640	1
4	Jozchal Radrel Sta	36-46-54N 055-11-18E	8,218	3
5	Kalateh Ye Khij Radrel Sta	36-43-06N 055-17-18E	5,209	1
6	Gonbad Qabus PTT Radrel Sta	37-15-00N 055-09-06E	134	2
7	Tangar Radrel Sta	37-25-12N 055-45-00E	3,625	2
8	Ardmudlu Radrel Sta	37-17-24N 056-14-06E	4,724	2
9	Asbakhu Radrel Sta	37-23-30N 056-27-00E	4,593	2
10	Akher Dagh Radrel Sta	37-34-18N 057-11-30E	4,593	At least 5
11	Miandasht Radrel Sta NIOC	36-26-20N 056-04-20E	4,494	2 periscopic
12	Rivand Radrel Sta NIOC	36-18-20N 057-27-01E	5,249	1 periscopic
13	Namen Radrel Sta	36-07-39N 057-23-51E	3,280	2
14	Shorab Radrel Sta NIOC	36-09-38N 058-17-30E	4,547	2 periscopic
15	Shorab Radrel Sta	36-09-36N 058-17-30E	4,547	2
16	Emam Qoli Radrel Sta Barracks	37-24-10N 058-30-58E	5,249	1
17	Kuh-e-matin Radrel Sta	37-19-48N 058-32-10E	6,627	3
18	Lotfabao Radrel TML	37-31-10N 059-20-25E	902	1
19	Zubaran Radrel Sta	37-14-21N 058-29-00E	6,391	2
20	Quchan Man TP Exch PTT	37-06-00N 058-31-00E	1,000	3
21	Quchan Radrel Sta Army Bks	37-07-48N 058-30-00E	4,232	1
22	Chanaran Passive Radrel Sta	36-34-48N 059-02-00E	6,066	2 reflectors
23	Chanaran Radrel Sta	36-35-54N 059-03-54E	4,494	2
24	Virani Radrel Sta	36-24-48N 059-21-48E	3,986	2
25	Mashhad TP SW Cen PTT	36-17-36N 059-36-32E	3,245	3
26	Mashhad Radrel Sta Airbase	36-15-00N 059-37-30E	3,245	2
27	Mashhad AW Radar Fac	36-11-22N 059-46-55E	3,285	1
28	Kuh-e-Khajemorad Radrel Sta	36-09-00N 059-41-06E	4,068	4
29	Mozouran Radrel Sta	36-10-00N 060-32-00E	2,850	1
30	Gardaneh-ye Mohammad Mizra Radrel Sta	35-44-56N 059-21-04E	7,368	3
31	Farhadgerd Radrel Sta	35-46-00N 059-43-02E	5,019	2
32	Kalat-e-safid Radcom A Radrel Sta	35-15-43N 060-19-59E	6,069	2
33	Torbat E Jam PTT Radrel Sta	35-14-32N 060-37-59E	5,429	2
34	Taghar-e-sang Passive Radrel Sta	35-11-00N 060-22-05E	6,502	1 reflector
35	Tayyebat Radrel Tml	34-44-12N 060-47-20E	2,001	1
36	Mashhad Radrel Tml NIOC	36-16-23N 059-39-10E	3,245	1
37	Mazinan Radrel Sta	36-24-27N 056-48-02E	4,035	2
Troposcatter Stations				
38	Soga Tropo Sta	37-43-24N 056-00-40E	250	4
39	Mashhad Tropo Sta	36-27-56N 059-45-15E	4,600	2
Other Communications Facilities				
40	Tayyebat Radcom Xmtr	34-44-07N 060-48-26E	2,001	2 guyed lattice towers
41	Mashhad AM Xmtr PTT	36-16-43N 059-35-48E	3,245	1 guyed lattice tower
42	Mashhad TV BC Sta	36-17-20N 059-33-18E	3,245	1 self-supporting lattice tower

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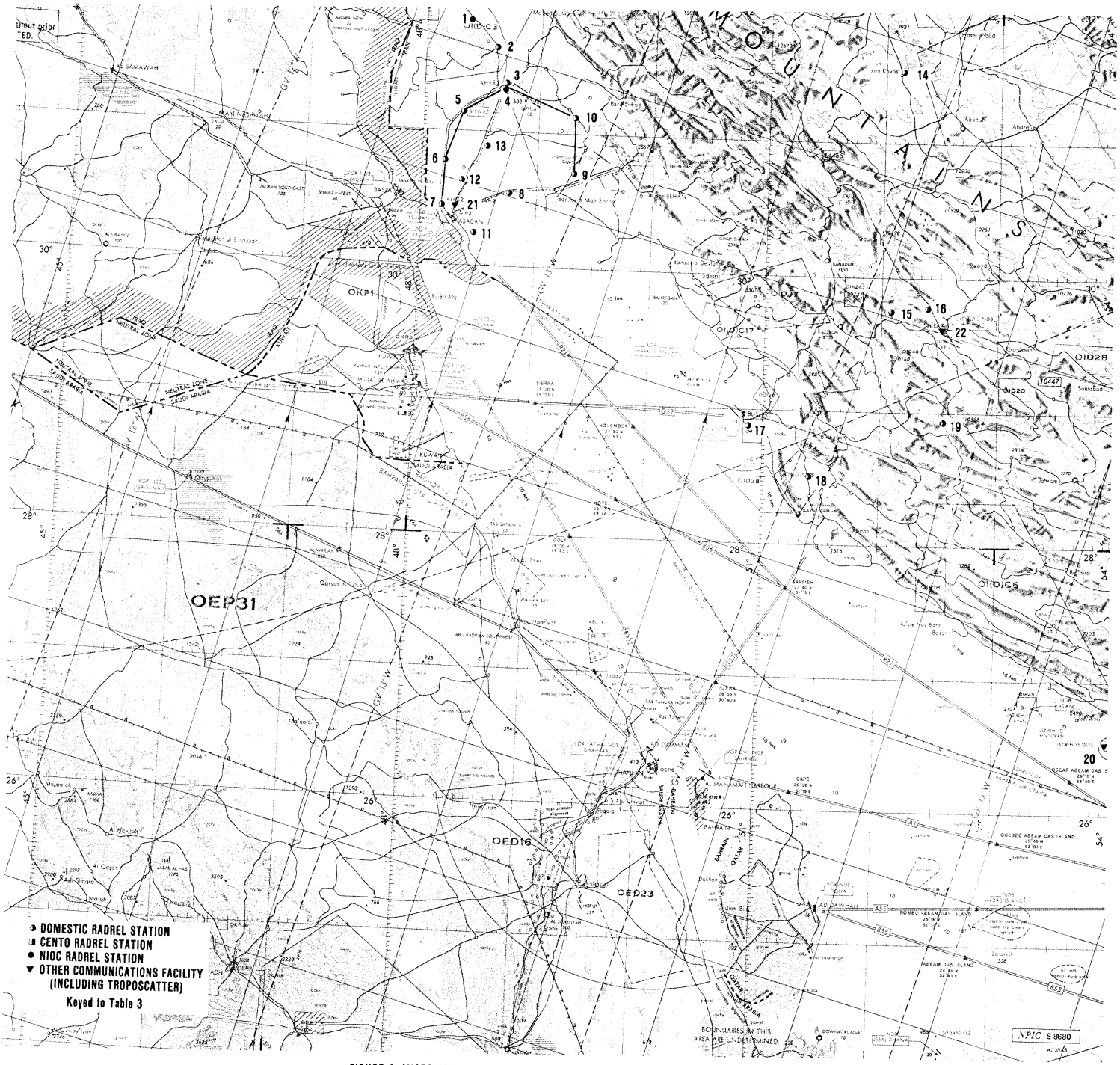

FIGURE 4. MICROWAVE RADIO RELAY STATIONS IN SOUTHWEST QUADRANT OF IRAN

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Table 3.
Microwave Radio Relay Stations, Troposcatter Stations, and Other Communications Facilities Identified in Iran
(Keyed to Figure 4)

25X1
25X1

Site No	Facility	Geographic Coordinates	Site Elev (ft)	No of Parabolic Antennas
1	Kheyrabad Radrel NIOC	31-50-38N 048-23-00E	120	2
2	Al Hai Mcrwv Fac	31-39-00N 048-36-30E	110	4
3	Ahvaz TV Xmtr Hqs	31-19-10N 048-42-10E	55	4
4	Ahvaz Radrel Terminal NIOC	31-19-18N 048-42-41E	150	8
5	Istgah-e Hamid Mckwv Fac	31-09-25N 048-20-20E	25	2 tropo 4
6	Istgah-e Hoseyniyeh Mcrwv Fac	30-47-55N 048-11-10E	12	4
7	Khorramshahr Commo Fac	30-26-30N 048-10-10E	5	6
8	Khor Duraq Mcrwv Fac	30-33-35N 048-44-50E	10	4
9	Mazlageh Mcrwv Fac	30-42-30N 049-18-10E	56	4
10	Khu-e Khenzireh Mcrwv Fac	31-07-00N 049-17-40E	300	4
11	Abadan TV Xmtr Hqs	30-11-25N 048-26-00E	10	1
12	Darkhovin Mcrwv Fac SW	30-39-00N 048-20-20E	10	4
13	Khezeriyeh Mcrwv Fac	30-54-30N 048-32-10E	45	6
14	Izad Khvast Mcrwv Fac	31-32-25N 052-07-33E	8,740	Undet
15	Elyasabad Mcrwv Fac	29-44-39N 052-04-47E	7,308	2
16	Shiraz Radrel Sta	29-46-28N 052-21-53E	9,800	2
17	Bushehr AW Radar Fac	28-52-20N 050-51-20E	100	2
18	Buraki-ye Bala Mcrwv Fac	29-29-51N 051-22-23E	862	3
19	Firuzabad Radrel Sta	28-56-24N 052-32-06E	5,689	Undet
Troposcatter Station				
20	Kishaw Radar Fac	26-32-30N 053-59-30E	5,500	2 tropo screens oriented ENE, 5 UHF/VHF antennas, 2 HF antennas
Other Communications Facilities				
21	Abadan Radcom Sta	30-26-10N 048-17-30E	10	4 horizontal dipole antennas
22	Shiraz Radcom Xmtr/ Rcvr NW	29-38-20N 052-30-22E	5,500	1 prob AM BC vertical radiator

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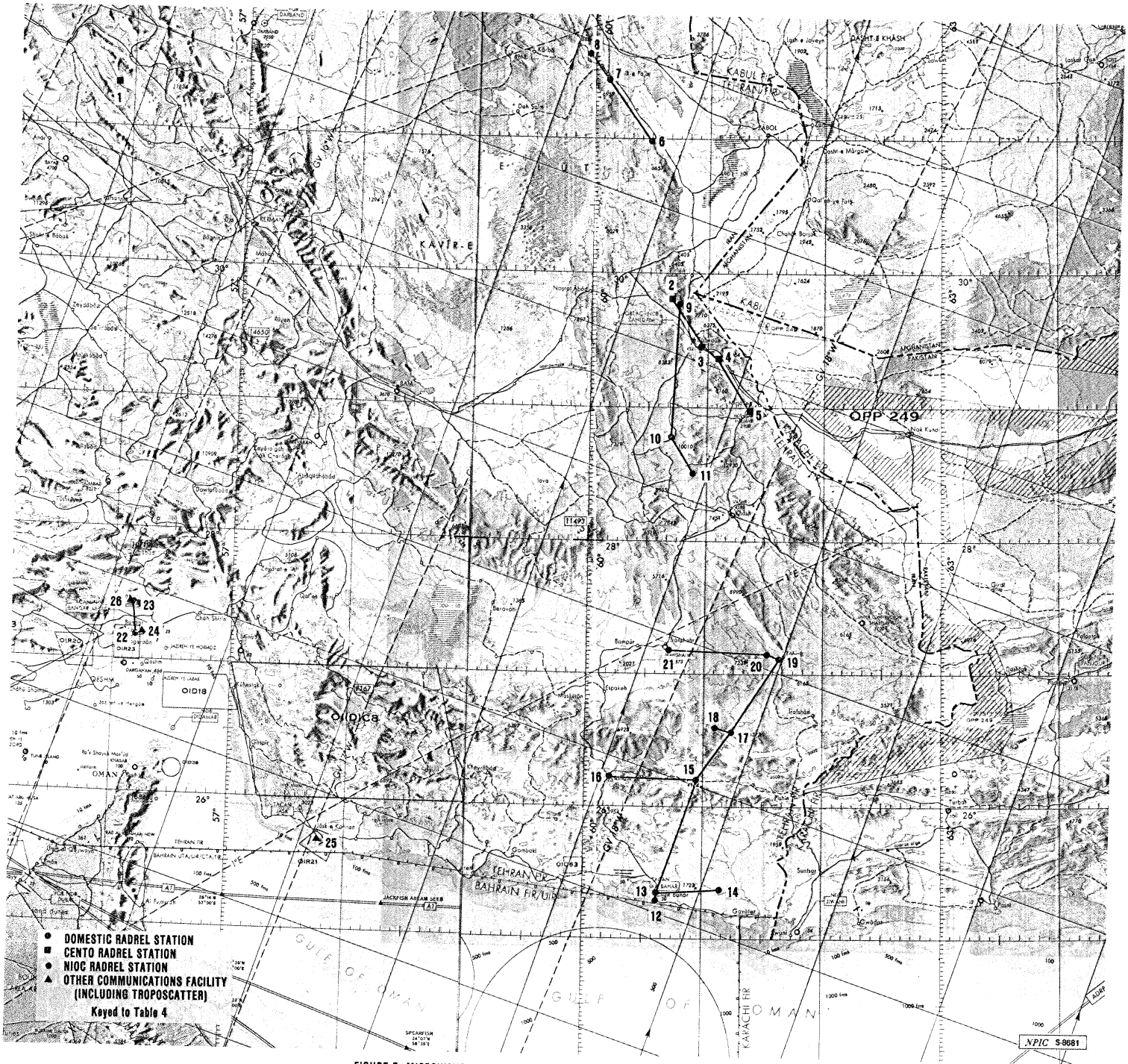

FIGURE 5. MICROWAVE RADIO RELAY STATIONS IN SOUTHEAST QUADRANT OF IRAN

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Table 4.
Microwave Radio Relay Stations, Troposcatter Stations, and Other Communications Facilities Identified in Iran
(Keyed to Figure 5)

25X1
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Site No	Facility	Geographic Coordinates	Site Elev (ft)	No of Parabolic Antennas
CENTO Stations				
1	Rafsanjan Intl Radrel CENTO	30-18-10N 055-52-40E	5,250	2
2	Kuieh Sangi Intl Radrel CENTO	29-48-30N 060-41-25E	5,700	2
3	Zahedan Intl Radrel CCT Drop CENTO	29-27-25N 060-51-52E	4,500	2
4	Kaheh Rud Intl Radrel CENTO	29-21-45N 061-07-15E	2,625	2
5	Mirjaveh Intl Radrel Tmnl CENTO	28-58-20N 061-23-15E	2,800	2
Domestic Microwave Stations				
6	Sefidaben Microwave Fac	30-54-30N 060-30-20E	3,000	2 prob
7	Nehbandan Microwave Fac	31-26-10N 060-07-45E	4,100	Undet
8	Shusf Prob Microwave Fac	31-47-00N 059-59-30E	4,800	Undet
9	Kuieh Sangi Radrel Sta	29-46-40N 061-45-00E	5,775	3
10	Mirabad Radrel Sta	28-47-25N 060-42-30E	7,672	2
11	Dwrjing Radrel Sta	28-30-23N 060-53-20E	5,643	2
12	Chan Bahan Radrel Sta	25-16-40N 060-37-30E	66	3
13	Tiz Radrel Sta	25-20-30N 060-37-40E	66	3
14	Negur Prob Radrel Sta	25-23-40N 061-09-20E	116	2 prob
15	Qasegan Radrel Sta	26-11-55N 060-51-55E	1,815	2
16	Nikshahr Prob Radrel Sta	26-13-08N 060-12-55E	1,320	1 prob
17	Kumitak Passive Reflector	26-34-45N 061-14-07E	3,630	1 passive reflector
18	Kumitak Radrel Sta	26-36-00N 061-12-55E	3,070	2
19	Zabolt Radrel Sta	27-07-55N 061-38-10E	4,406	2
20	Teradan Radrel Sta	27-10-20N 060-37-40E	4,290	2
21	Iranshahe Radrel Sta	27-11-30N 060-40-45E	1,683	1
22	Bandar Abbas Merwy Fac	27-10-30N 056-11-20E	15	1
23	Kuh-genow Radrel Sta	27-25-40N 056-09-15E	2,350	4
Troposcatter Stations				
24	Bandar Abbas AW Radar Fac	27-10-59N 056-12-55E	25	4
25	Jask AW Radar Fac	25-38-30N 057-45-45E	10	2
Other Communications Facility				
26	Bandar Abbas TV Xmtr PTT	27-25-30N 056-09-05E	2,350	1 self-supporting lattice tower

25X1

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MAPS OR CHARTS

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